



PTO/SB/21 (09-04)

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|  |                        |                     |
|--|------------------------|---------------------|
| <b>TRANSMITTAL<br/>FORM</b><br><br><small>(to be used for all correspondence after initial filing)</small> | Application Number     | 10/698,721          |
|  | Filing Date            | October 31, 2003    |
|  | First Named Inventor   | Philip J. Pietraski |
|  | Art Unit               | 2617                |
|  | Examiner Name          | Ewart, James D.     |
| Total Number of Pages in This Submission   | Attorney Docket Number | I-2-0433.1US        |

| ENCLOSURES (Check all that apply)  |  |  |
|--|--|--|
| <input checked="" type="checkbox"/> Fee Transmittal Form<br><input checked="" type="checkbox"/> Fee Attached<br><input type="checkbox"/> Amendment/Reply<br><input type="checkbox"/> After Final<br><input type="checkbox"/> Affidavits/declaration(s)<br><input type="checkbox"/> Extension of Time Request<br><input type="checkbox"/> Express Abandonment Request<br><input checked="" type="checkbox"/> Information Disclosure Statement<br><br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><input type="checkbox"/> Reply to Missing Parts/Incomplete Application<br><input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s)<br><input type="checkbox"/> Licensing-related Papers<br><br><input type="checkbox"/> Petition<br><input type="checkbox"/> Petition to Convert to a Provisional Application<br><input type="checkbox"/> Power of Attorney, Revocation<br><input type="checkbox"/> Change of Correspondence Address<br><input type="checkbox"/> Terminal Disclaimer<br><input type="checkbox"/> Request for Refund<br><input type="checkbox"/> CD, Number of CD(s) _____<br><input type="checkbox"/> Landscape Table on CD<br><br><input type="text"/> Remarks | <input type="checkbox"/> After Allowance Communication to TC<br><input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences<br><input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)<br><input type="checkbox"/> Proprietary Information<br><input type="checkbox"/> Status Letter<br><input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):<br><b>Form PTO-1449, Copy of European Search Report, and Three References Cited.</b> |
| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT   |  |  |
| Firm Name VOLPE AND KOENIG, P.C.   |  |  |
| Signature <i>Joseph P. Gushue</i>  |  |  |
| Printed name Joseph P. Gushue  |  |  |
| Date April 23, 2007  | Reg. No.   | 59,819   |

| CERTIFICATE OF TRANSMISSION/MAILING  |                         |                     |
|--|-------------------------|---------------------|
| I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below: |                         |                     |
| Signature  | <i>Joseph P. Gushue</i> |                     |
| Typed or printed name  | Joseph P. Gushue        | Date April 23, 2007 |

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /DL/

PTO/SB/17 (01-06)

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Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

# FEE TRANSMITTAL

## For FY 2006

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 180.00

## Complete if Known

Application Number 10/698,721  
 Filing Date October 31, 2003  
 First Named Inventor Philip J. Pietraski  
 Examiner Name Ewart, James D.  
 Art Unit 2617  
 Attorney Docket No. I-2-0433.1US

## METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify):

☒ Deposit Account Deposit Account Number: 09-0435 Deposit Account Name: InterDigital Communications Corporation

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee

☒ Charge any additional fee(s) or underpayments of fee(s) ☒ Credit any overpayments  
 under 37 CFR 1.16 and 1.17

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2036.

## FEE CALCULATION (All the fees below are due upon filing or may be subject to a surcharge.)

## 1. BASIC FILING, SEARCH, AND EXAMINATION FEES

| Application Type | FILING FEES |                       | SEARCH FEES |                       | EXAMINATION FEES |                       | Fees Paid (\$) |
|------------------|-------------|-----------------------|-------------|-----------------------|------------------|-----------------------|----------------|
|                  | Fee (\$)    | Small Entity Fee (\$) | Fee (\$)    | Small Entity Fee (\$) | Fee (\$)         | Small Entity Fee (\$) |                |
| Utility          | 300         | 150                   | 500         | 250                   | 200              | 100                   |                |
| Design           | 200         | 100                   | 100         | 50                    | 130              | 65                    |                |
| Plant            | 200         | 100                   | 300         | 150                   | 160              | 80                    |                |
| Reissue          | 300         | 150                   | 500         | 250                   | 600              | 300                   |                |
| Provisional      | 200         | 100                   | 0           | 0                     | 0                | 0                     |                |

## 2. EXCESS CLAIM FEES

| Fee Description                                    | Fee (\$) | Small Entity Fee (\$) |
|--|----------|-----------------------|
| Each claim over 20 (including Reissues)            | 50       | 25                    |
| Each independent claim over 3 (including Reissues) | 200      | 100                   |
| Multiple dependent claims                          | 360      | 180                   |
| Total Claims                                       |          |                       |
| Extra Claims                                       |          |                       |
| Fee (\$)   |          |                       |
| Fee Paid (\$)                                      | 0        |                       |

HP = highest number of total claims paid for, if greater than 20.

| Indep. Claims | Extra Claims | Fee (\$) | Fee Paid (\$) |
|---------------|--------------|----------|---------------|
|               |              |          | 0             |

HP = highest number of independent claims paid for, if greater than 3.

## 3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof | Fee (\$) | Fee Paid (\$) |
|--------------|--------------|--|----------|---------------|
| - 100 =      | / 50 =       | (round up to a whole number) x                   |          |               |

## 4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): Information Disclosure Statement 37 CFR 1.97 Requirements

Fees Paid (\$)

180.00

## SUBMITTED BY

Signature Joseph P. Gushue Registration No. (Attorney/Agent) 59,819 Telephone 215-568-6400  
 Name (Print/Type) Joseph P. Gushue Date April 23, 2007

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application, examination, or prosecution governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /DL/

**PATENT****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In the **PATENT APPLICATION** of:

Philip J. Pietraski

**Application No.:** 10/698,721

**Confirmation No.:** 1573

**Filed:** October 31, 2003

**For:** METHOD FOR CHANNEL QUALITY  
PREDICTION FOR WIRELESS  
COMMUNICATION SYSTEMS

**Group:** 2617

**Examiner:** Ewart, James D.

**Our File:** I-2-0433.1US

**Date:** April 23, 2007

**INFORMATION DISCLOSURE STATEMENT**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Further to Applicant's Duty of Disclosure pursuant to 37 C.F.R. §1.56, Applicant wishes to bring to the Examiner's attention the material cited on the enclosed PTO-1449 form. Newly cited documents are indicated by an asterisk (\*). Copies of the cited documents are enclosed, and pursuant to 37 C.F.R. §1.98(a)(2)(ii), copies of the cited U.S. publications and/or patent documents have not been included.

Pursuant to 37 C.F.R. § 1.97(e)(1), the undersigned certifies that each new item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application, copy enclosed, and that this communication was not received by any individual designated in §1.56(c) more

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**Applicant: Philip J. Pietraski**  
**Application No.: 10/698,721**

than three (3) months prior to the filing of this Information Disclosure Statement.

The source of the newly identified items of information is the enclosed communication from a foreign patent office in a counterpart application, dated November 11, 2006.

This Information Disclosure Statement is being filed with the fee required by 37 C.F.R. § 1.17(p).

It is respectfully requested that the Examiner consider these documents and return an initialed copy of the PTO-1449 form indicating his consideration of the cited materials.

Respectfully submitted,

Philip J. Pietraski

By Joseph P. Gushue  
Joseph P. Gushue  
Registration No. 59,819  
(215) 568-6400

Volpe and Koenig, P.C.  
United Plaza, Suite 1600  
30 South 17th Street  
Philadelphia, PA 19103

JCD/ci  
Enclosures

Sheet 1 of 1



FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.  
I-2-0433.1USSERIAL NO.  
10/698,721APPLICANT  
Philip J. PietraskiFILING DATE  
October 31, 2003GROUP  
2617

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL | DOCUMENT NUMBER | DATE    | NAME                | CLASS | SUBCLASS | FILING DATE IF<br>APPROPRIATE |
|---------------------|-----------------|---------|---------------------|-------|----------|-------------------------------|
|                     | 4,335,361       | 06/1982 | Acker, William F.   |       |          |                               |
|                     | 5,305,468       | 04/1994 | Bruckert et al.     |       |          |                               |
| *                   | 5,541,955       | 07/1996 | Jacos Meyer et al.  |       |          |                               |
|                     | 5,953,669       | 09/1999 | Stratis et al.      |       |          |                               |
|                     | 6,088,324       | 07/2000 | Sato, Toshifumi     |       |          |                               |
|                     | 6,108,374       | 08/2000 | Balachandran et al. |       |          |                               |
|                     | 6,404,827       | 06/2002 | Uesugi, Mitsuru     |       |          |                               |
|                     | 6,665,271       | 12/2003 | Thomas et al.       |       |          |                               |
|                     | 6,731,990       | 05/2004 | Carter et al.       |       |          |                               |
|                     | 2001/0034239    | 10/2001 | Yamato et al.       |       |          |                               |
| *                   | 2002/0058505    | 05/2002 | Kim et al.          |       |          |                               |
| *                   | 2002/0097686    | 07/2002 | Qiu                 |       |          |                               |
|                     | 2003/0017835    | 01/2003 | Bergel              |       |          |                               |
|                     | 2003/0072355    | 04/2003 | Lee et al.          |       |          |                               |
|                     | 2003/0142647    | 07/2003 | Agrawal et al.      |       |          |                               |
|                     | 2003/0129992    | 07/2003 | Koorapaty et al.    |       |          |                               |
|                     | 2004/0008644    | 01/2004 | Holtzman et al.     |       |          |                               |

## FOREIGN PATENT DOCUMENTS

|   | DOCUMENT NUMBER | DATE    | COUNTRY | CLASS | SUBCLASS | TRANSLATION |    |
|---|-----------------|---------|---------|-------|----------|-------------|----|
|   |                 |         |         |       |          | YES         | NO |
| * | 0899906         | 03/1999 | EP      |       |          |             |    |
| * | 1178623         | 02/2002 | EP      |       |          |             |    |

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

|   |   |
|---|---|
| * | Duel-Hallen et al. "Long-Range Prediction of Fading Signals." IEEE Signal Processing Magazine, vol. 17, no. 3, May 2000, pp. 62-75. |
|---|---|

EXAMINER  
/Dung Lam/DATE CONSIDERED  
03/29/2008

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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